

FIG. 1
PRIOR ART

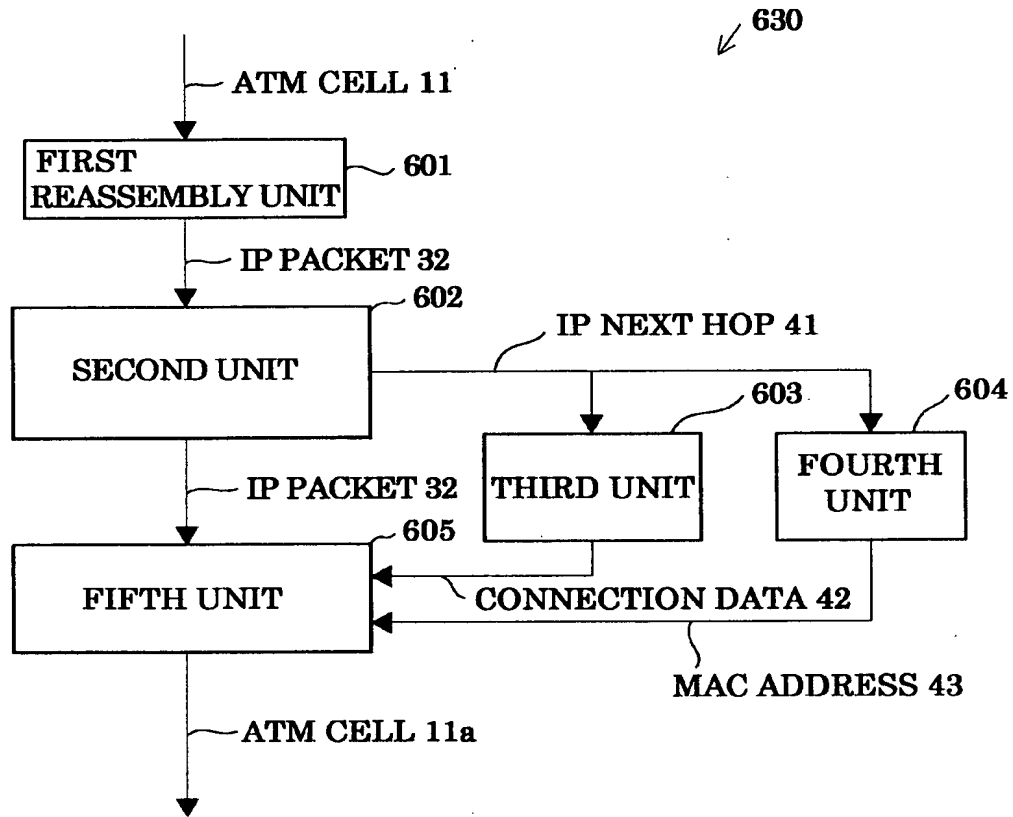


FIG. 2
PRIOR ART

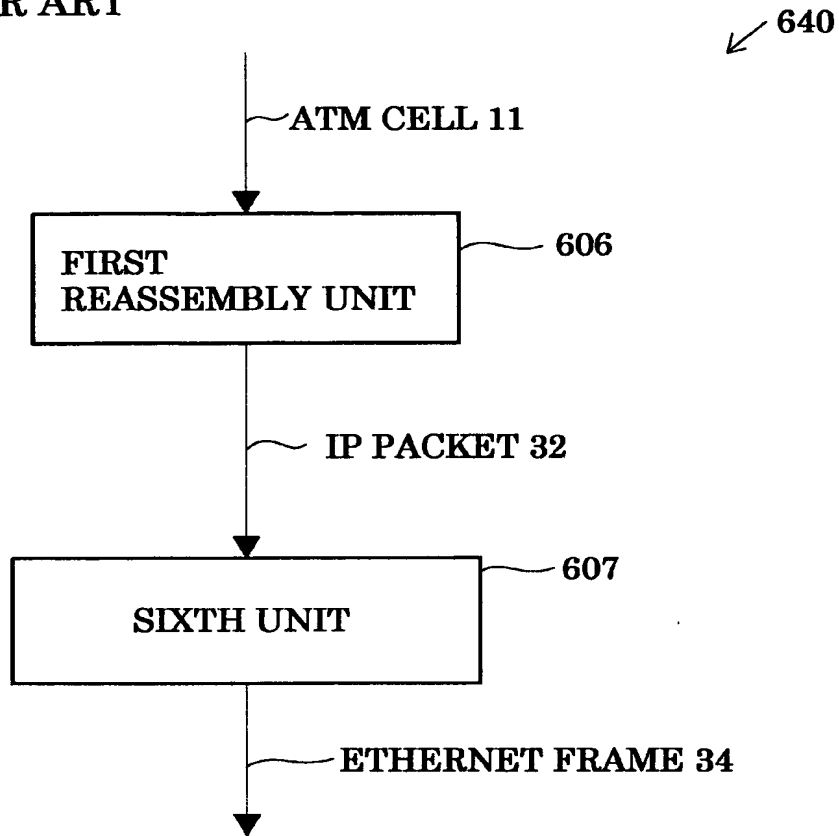


FIG. 3
PRIOR ART

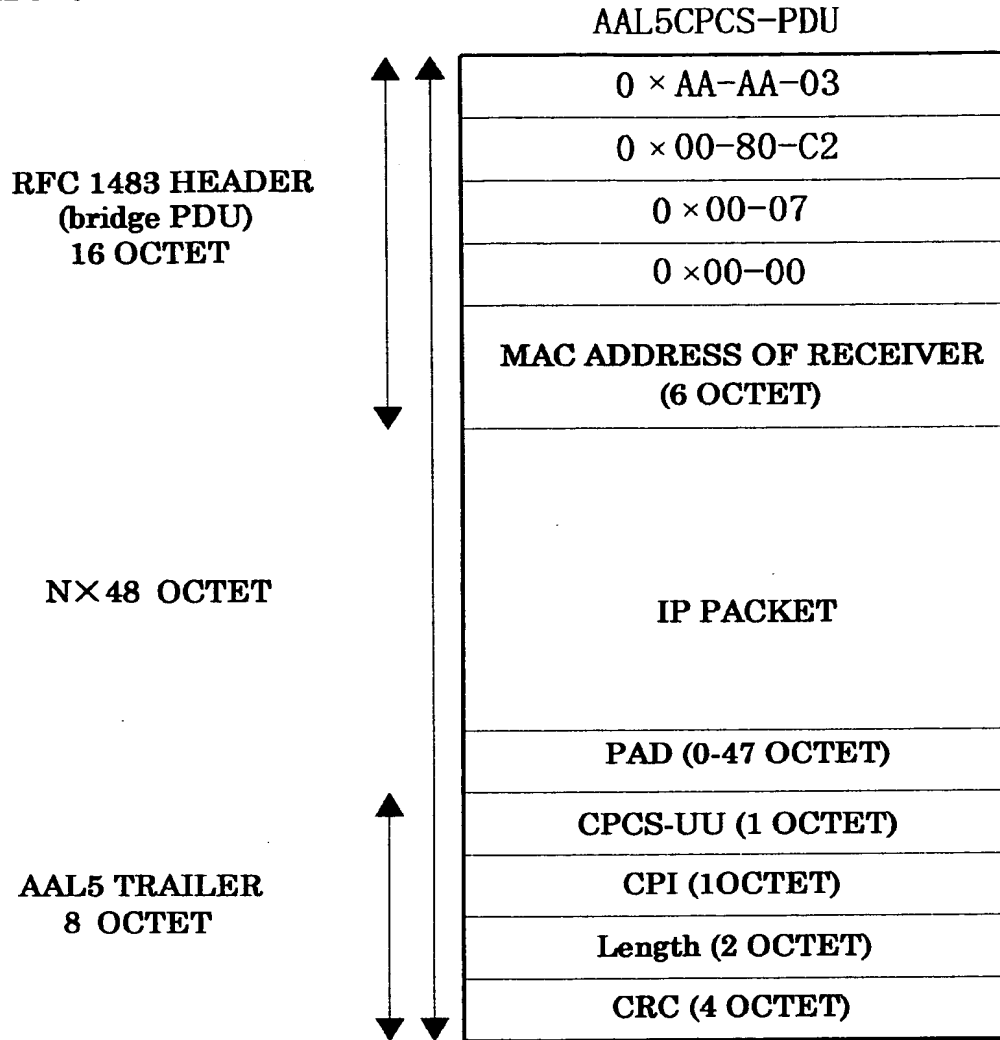


FIG. 4

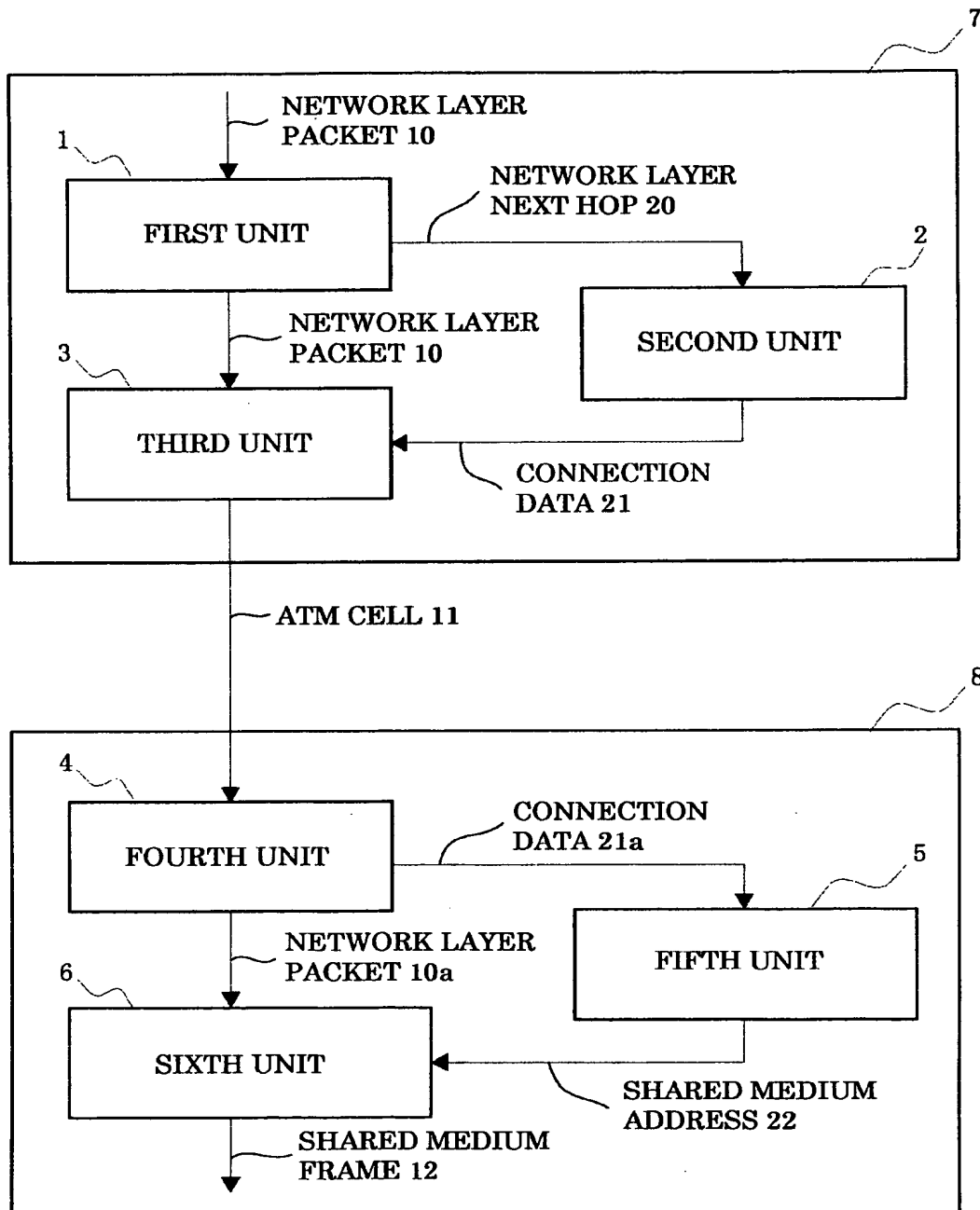


FIG. 5

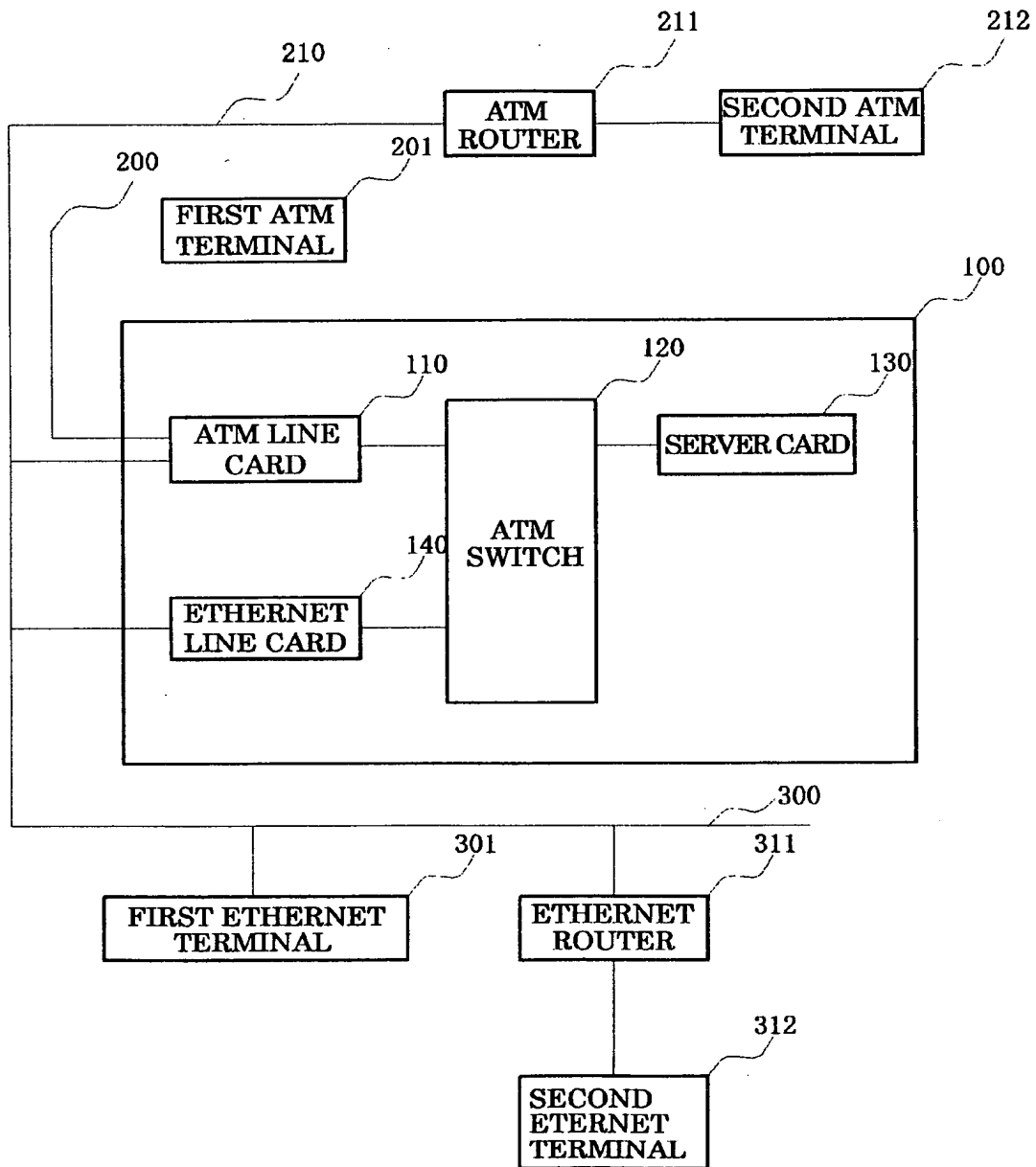


FIG. 6

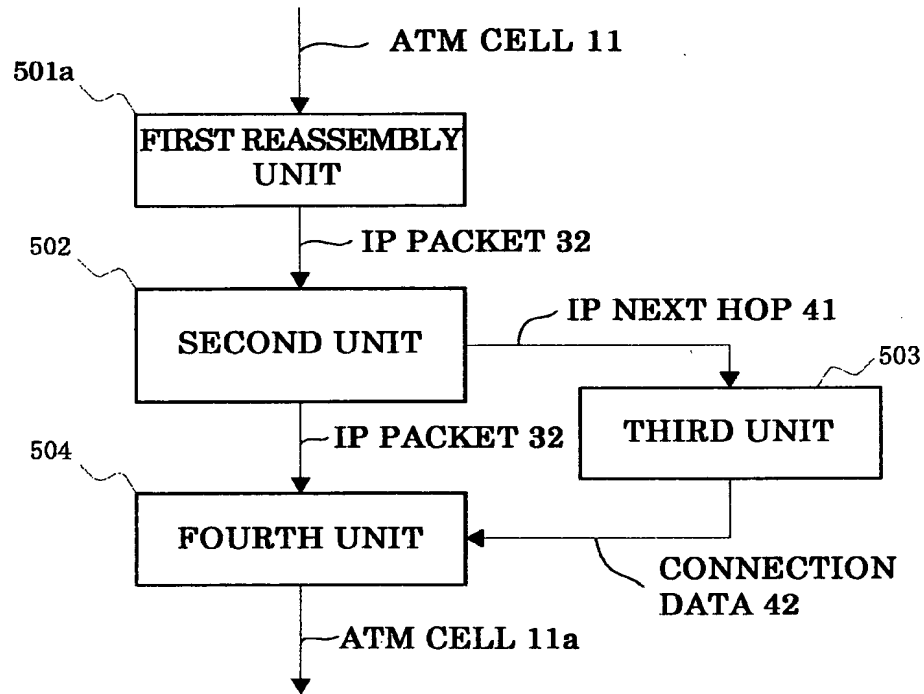


FIG. 7

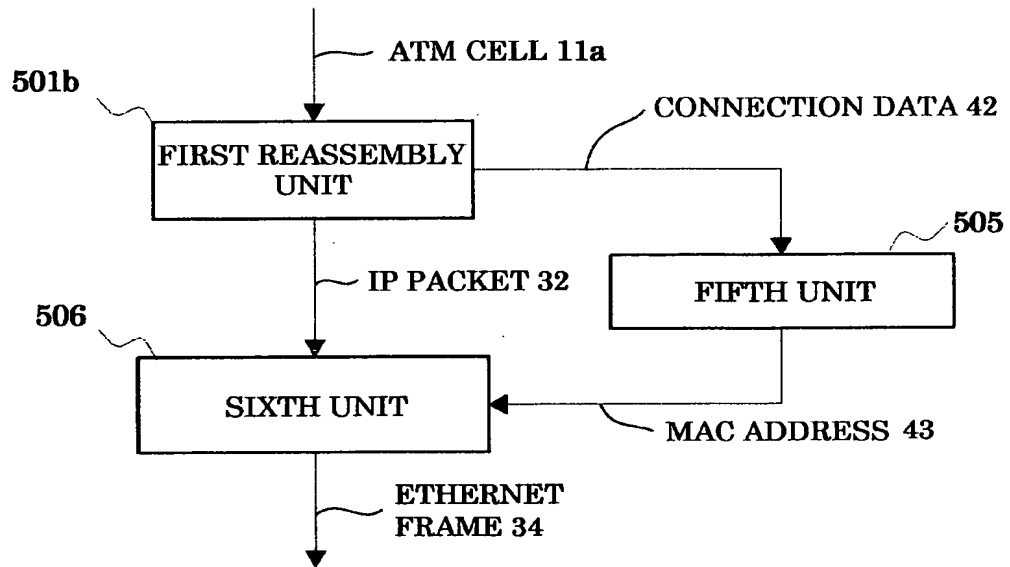


FIG. 8

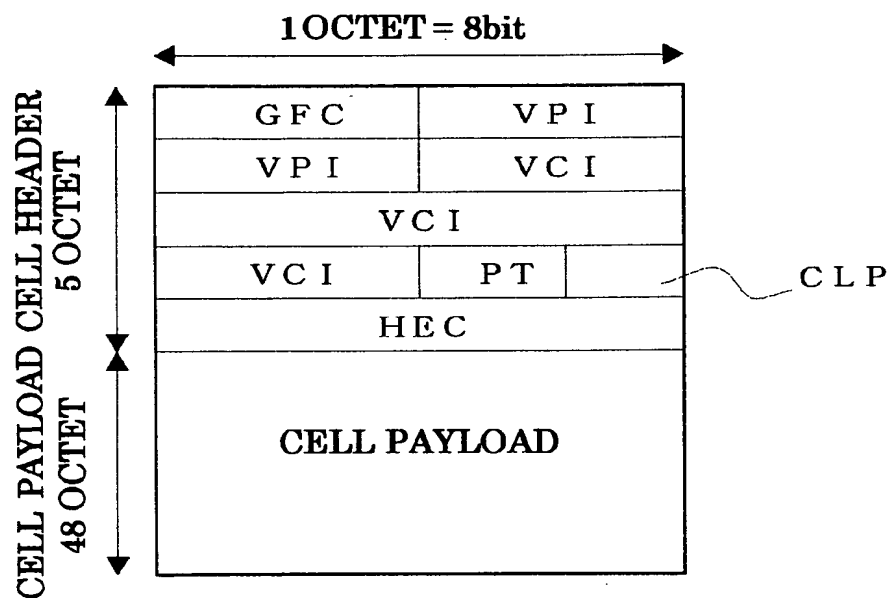


FIG. 9

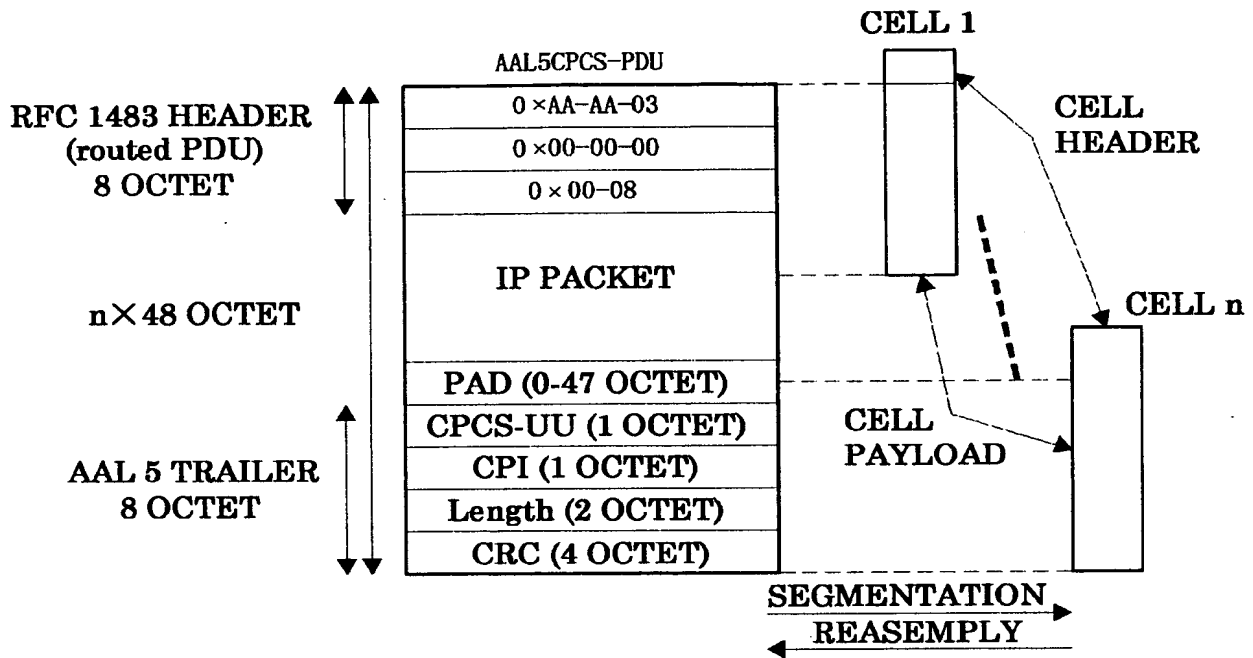


FIG. 10

IP ADDRESS OF RECEIVER	IP NEXT HOP	601
IP ADDRESS OF FIRST ATM TERMINAL 201	IP ADDRESS OF FIRST ATM TERMINAL 201	41a
IP ADDRESS OF SECOND ATM TERMINAL 212	IP ADDRESS OF ATM ROUTER 211	41b
IP ADDRESS OF ETHERNET TERMINAL 301	IP ADDRESS OF ETHERNET TERMINAL 301	41c
IP ADDRESS OF ETHERNET TERMINAL 312	IP ADDRESS OF ETHERNET ROUTER 311	41d

FIG. 11

IP ADDRESS OF RECEIVER	CONNECTION DATA
IP ADDRESS OF FIRST ATM TERMINAL 201	42a
IP ADDRESS OF ATM ROUTER 211	42b
IPADDRESS OF ETHERNET TERMINAL 301	42c
IP ADDRESS OF ETHERNET ROUTER 311	42d

602

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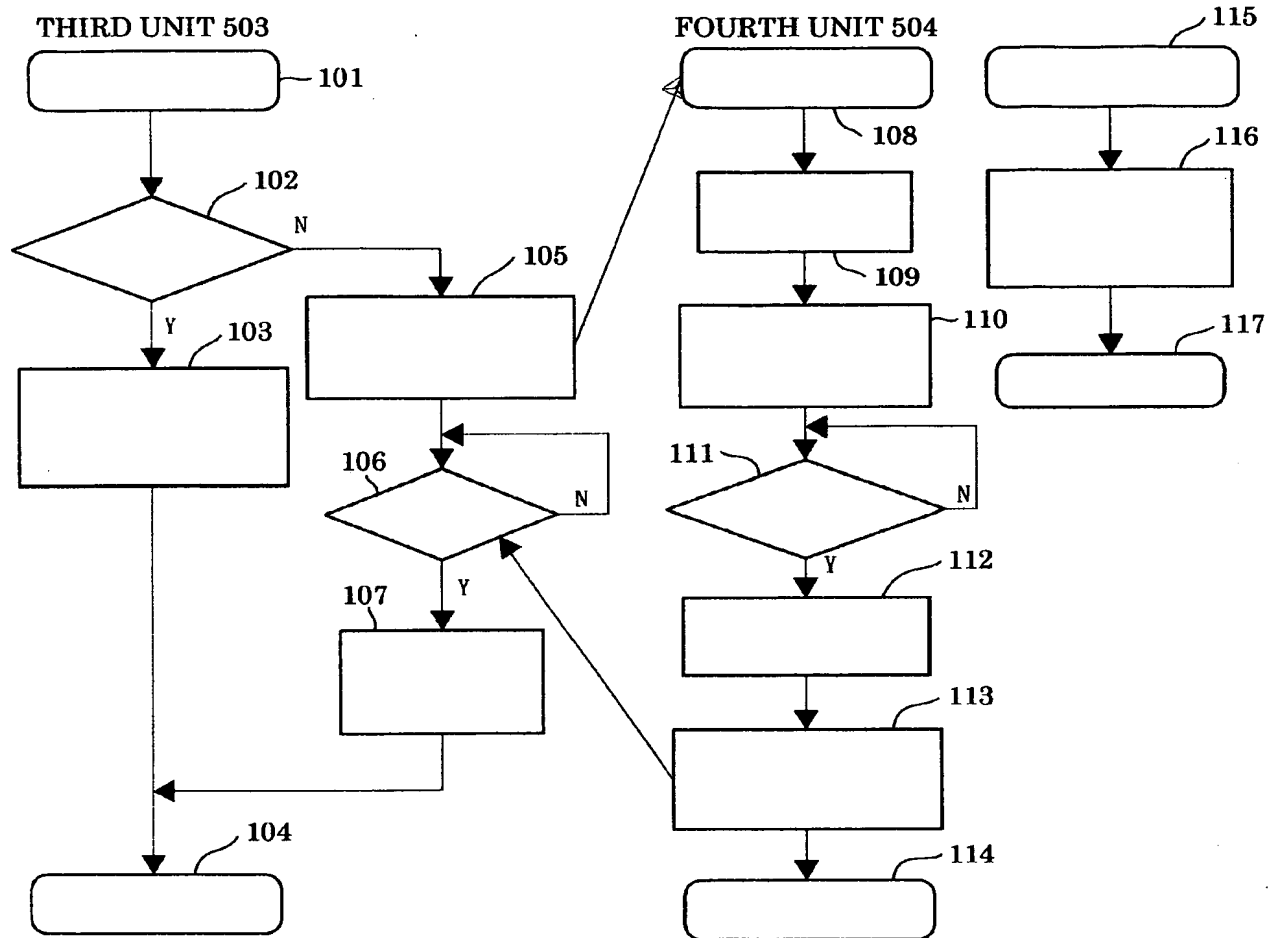
FIG. 12

ETHERNET FRAME	
PREAMBLE (7 OCTET)	
SFD (1 OCTET)	
MAC ADDRESS OF RECEIVER (6 OCTET)	
MAC ADDERSS OF TRANSMITTER(6 OCTET)	
TYPE (2 OCTET)	
IP PACKET	
FCS (4 OCTET)	

FIG. 13

CONNECTION DATA	MAC ADDRESS	603
42c	MAC ADDRESS OF ETHERNET TERMINAL 301	43c
42d	MAC ADDRESS OF ETHERNET ROUTER 311	43d

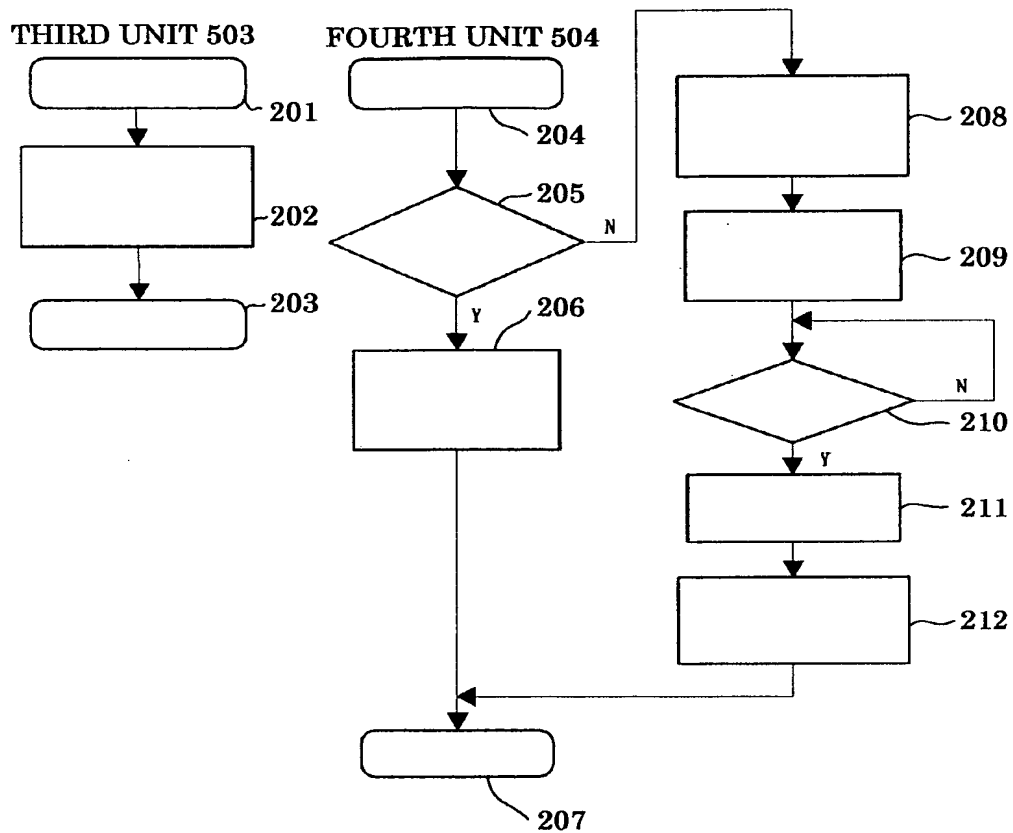
FIG. 14



101 : RECEIVING IP PACKET 32x
 102 : IS CONNECTION DATA INCLUDED ?
 103 : FINDING CONNECTION DATA 42x
 104 : TRANSMITTING CONNECTION
 DATA 42x
 105 : TRANSMITTING ATM ARP PACKET
 106 : IS RESPONSE RECEIVED ?
 107 : STORING RELATION
 108 : RECEIVING ATM ARP PACKET
 109 : ASSIGNING NON-USED CONNECTION
 DATA 42x
 110 : TRANSMITTING ARP PACKET

111 : IS RESPONSE RECEIVED ?
 112 : EXTRACTING MAC ADDRESS 43x
 113 : STORING RELATION
 114 : TRANSMITTING MAC ADDRESS 43x
 115 : RECEIVING CONNECTION DATA 42x
 116 : FINDING MAC ADDRESS 43x
 117 : TRANSMITTING MAC ADDRESS 43x

FIG. 15



201 : RECEIVING IP PACKET 32y
 202 : PRODUCING CONNECTION
 DATA 42y
 203 : TRANSMITTING CONNECTION
 DATA 42y
 204 : RECEIVING CONNECTION
 DATA 42y
 205 : IS CONNECTION DATA
 REGISTERED ?
 206 : FINDING MAC ADDRESS 43y
 207 : TRANSMITTING MAC ADDRESS 43y

208 : DEFINING IP NEXT HOP 41y
 209 : TRANSMITTING ARP PACKET
 210 : IS RESPONSE RECEIVED ?
 211 : EXTRACTING MAC ADDRESS 43y
 212 : STORING RELATION

FIG. 16

